

First record of the genus *Hieromantis* Meyrick from China, with a description of one new species

(Lepidoptera: Oecophoridae, Stathmopodinae)

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Abstract: The genus *Hieromantis* Meyrick is reported for the first time in China, with one species *Hieromantis sheni* Li et Wang, sp. nov. described as new to science and one species *Hieromantis kurokoi* Yasuda, 1988 recorded for the first time from this country. The genital structures of both sexes are figured.

Key words: Lepidoptera; Oecophoridae; Stathmopodinae; *Hieromantis*; new species

This paper reports the discovery in China of the genus *Hieromantis* Meyrick. *Hieromantis* is a small genus, with eight species recorded by Meyrick from India, Sri Lanka, Fiji, New Guinea and Australia between 1897 to 1924. Bradley identified one new species from Solomon Islands in 1957. Yasuda described two new species from Japan in 1988. In this paper, one species *Hieromantis sheni* Li et Wang, sp. nov. is described as new to science and one species *Hieromantis kurokoi* Yasuda, 1988 is recorded for the first time from this country. All specimens examined, including type specimens, are deposited in the Department of Biology, Nankai University, Tianjin, China.

Hieromantis Meyrick, 1897 New Record for China

Hieromantis Meyrick, 1897, *Proc. Linn. Soc. N. S. W.*, 22: 315.

Type species: *Hieromantis ephodophora* Meyrick, 1897.

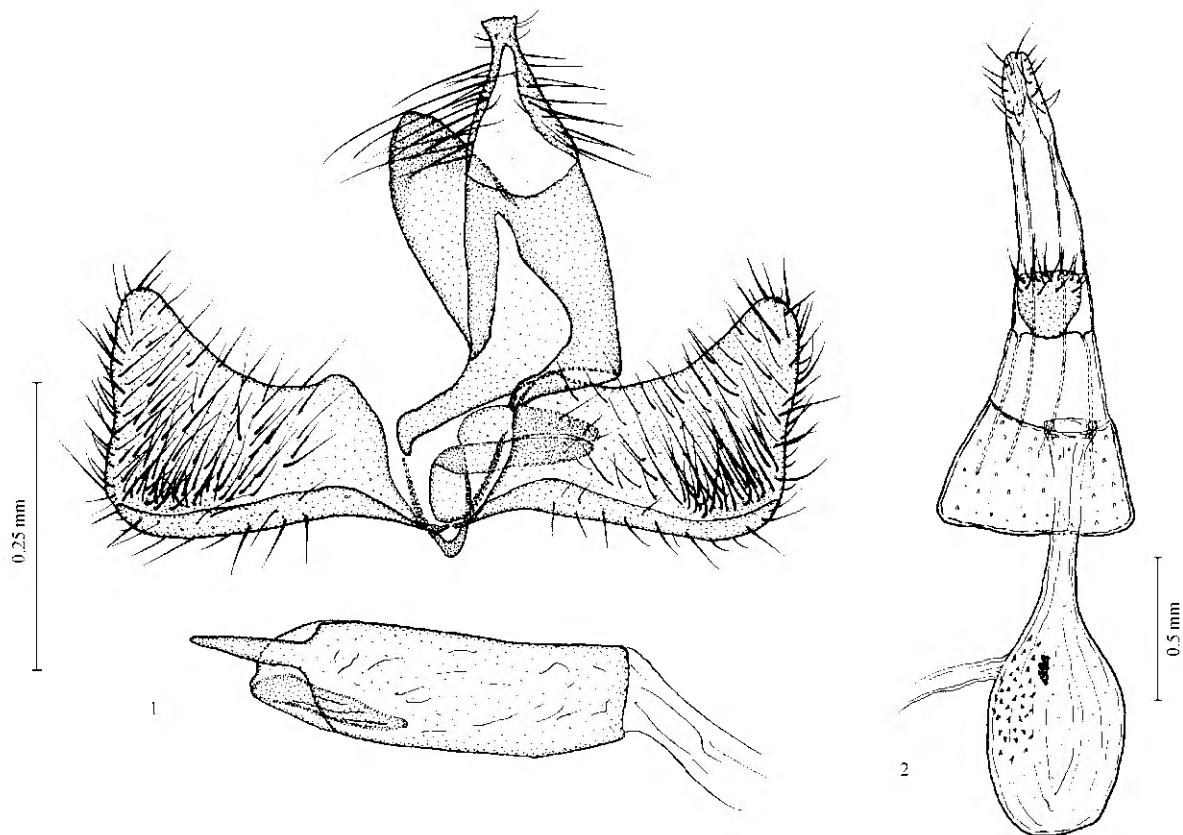
Head smoothly scaled. Labial palpus with third segment as long as second. Antenna ciliated in male, simple in female; scape enlarged, forming an eye-cap. Forewing with 1A and 2A furcate, R_4 and R_5 stalked, R_5 reaching costa. Hindwing with Rs divided into R_{2+3} and R_{4+5} ; M_2 and M_3 sometimes coincident. Male genitalia with uncus and gnathos developed, sacculus not distinct. Female genitalia with or without signum.

The genus *Hieromantis* Meyrick is mainly distributed in the Indo-Australian region.

Hieromantis sheni Li et Wang, sp. nov. (Figs. 1 – 2)

Wing expanse 8.5 – 9.5 mm. Head shining white, ochreous yellow on vertex. Labial palpus greyish white, tinged light brown; third segment as long as second, with acute apex. Antenna with scape enlarged, ochreous yellow on dorsal surface, greyish white on ventral surface; flagellum brown. Thorax and tegular leaden grey to brown, basally with ochreous yellow patches, or thorax with a pair of short longitudinal streaks. Forewing narrow, lanceolate; ground colour deep grey, distal 1/6 deep brown, basally with ochreous yellow scales, somewhat forming a spot at costa; a shining round black spot on posterior margin near base, centered with a white dot, the spot surrounded with ochreous yellow scales except for inner side bordered with white scales; two connected irregular black spots at middle of cell, with anterior margin scaled by white; a leaden grey blotch below the two spots on dorsum, its inner side with an ochreous yellow patch; a large transverse ochreous yellow patch near apex; cilia deep brown. Hindwing and cilia brown. Legs with femora whitish, tibiae and tarsi ochreous yellow; fore and mid tarsi with brown spots or scales; hind tibia covered with brown hairs, tarsus grey. Abdomen dark brown, several

distal segments posteriorly bordered with white scales.



Figs. 1~2 *Hieromantis sheni* Li et Wang, sp. nov. 申点展足蛾, 新种

1. Male genitalia (slide no. W00281) (雄性外生殖器); 2. Female genitalia (slide no. W98342) (雌性外生殖器)

Male genitalia (Fig. 1): Uncus wide at base, slowly narrowing toward the distal end; apical part short, almost squarely shaped, apex truncate. Gnathos large and broad, distal portion granulose, apex rounded. Valva narrow in basal portion, distal portion gradually widened, apical margin straight, somewhat concave medially. Costa projecting at base, concave medially. Sacculus narrow, sclerotized. Vinculum narrow-banded. Saccus very short. Juxta well defined. Aedeagus cylindrate, weakly sclerotized, lateral side nearly parallel, distal with a pointed process.

Female genitalia (Fig. 2): Papilla analis long and narrow. Posterior apophyses more than twice as long as anterior apophyses. Ostium weak. Ductus bursae slender. Corpus bursae elliptical, nearly as long as ductus bursae, membranous, inside with some small teeth. Signum small and dentate.

Holotype ♂, Xixia (33.3°N, 111.4°E), Henan Province, 890 m, July 17, 1998, collected by LI Hou-

Hun. Paratypes: 2♀♀, Xinyang (32.1°N, 114.1°E), Henan Province, 700 m, May 9, 1997, collected by LI Hou-Hun; 12♂♂, 5♀♀, Dengfeng (34.4°N, 113.0°E), Henan Province, 800 m, June 9, 2000, collected by YU Hai-Li; 1♀, Yushan (28.6°N, 118.2°E), Jiangxi Province, July 19, 1985, collected by SHEN Guang-Pu; 2♂♂, 3♀♀, Jingxing (38.0°N, 114.0°E), Hebei Province, 1200 m, July 23~24, 2000, collected by YU Hai-Li.

Diagnosis: This new species is similar to *H. makiosana* Yasuda, but differs from the latter in the following characters: thorax leaden grey to brown, uncus with truncate apex in male genitalia and corpus bursae with many small teeth and signum small in female genitalia.

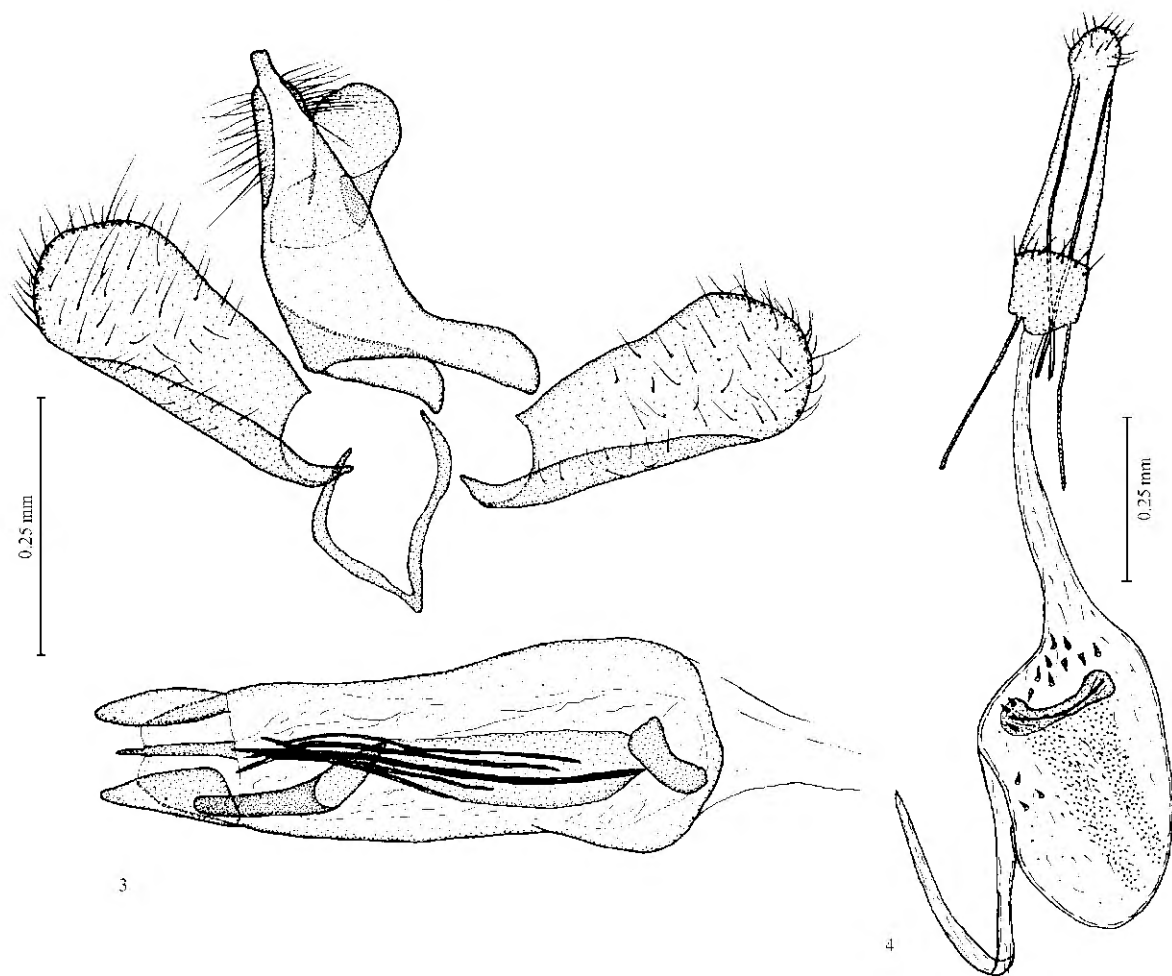
Note: The species is named after Prof. Shen Xiao-Cheng, Institute of Plant Protection, Henan Academy of Agricultural Sciences.

Hieromantis kurokoi* Yasuda, 1988 New Record for China (Figs. 3–4)Hieromantis kurokoi* Yasuda, 1988, *Kontyu*, 56 (3): 494.*Hieromantis nordella* Sinev, 1988, Riedl, 1994, *Annals of the Upper Silesian Museum in Bytom Entomology*, 5: 12.

Wing expanse 8.5–10.0 mm. Head with appressed scale, frons shining white, vertex golden yellow. Labial palpus whitish yellow; third segment nearly as long as second, with pointed apex. Antenna with scape widened, somewhat oblong, yellowish white on dorsal surface, white on ventral surface; flagellum yellowish ringed brown. Thorax and tegula golden yellow, distally greyish. Forewing narrow, lanceolate, ground colour golden yellow; white transverse blotch at 1/3 and 2/3 respectively; a shining metallic grey semioval blotch from 1/5 to 3/5 of posterior margin upward not exceeding half across wing,

bordered with shining black spots or scales; inner side of this blotch with a rounded black spot on dorsum, a white dot in its middle; a short subapical white streak near termen, edged with grey scales on inner margin; terminal area of apex with white scales, somewhat forming a dot; termen oblique, margined with grey scales; cilia yellowish, greyish at tornus. Hindwing and cilia grey, mixed with whitish yellow. Fore leg greyish black dorsally, whitish ventrally. Mid and hind legs whitish yellow, tarsi with brown scales.

Male genitalia (Fig. 3): Uncus widened at base, apical part short and narrow, apex blunt. Gnathos large and broad, apically rounded. Valva somewhat expanded distally, with rounded apex. Saccus narrow and sclerotized. Vinculum narrow. Saccus short. Aedeagus well de-

Figs. 3–4 *Hieromantis kurokoi* Yasuda 洁点展足蛾

3. Male genitalia (slide no. W00278) (雄性外生殖器); 4. Female genitalia (slide no. L87081) (雌性外生殖器)

veloped, relatively large, medial portion longitudinally more sclerotized; a sclerotized plate near base, several long thin sclerites in middle, a thick heavily sclerotized elongate structure arising from distal 2/5 reaching near apex, distal with three long processes, the middle one thinner.

Female genitalia (Fig. 4): Papilla analis apically rounded. Posterior apophyses almost twice as long as anterior apophyses. Ductus bursae long and thin, as long as posterior apophyses. Corpus bursae large, irregularly elliptical, posteriorly with many small teeth, medially granular. Signum transversally long, with a long sclerotized ridge in middle.

Material examined: 1 ♂, Neiqiu (37.2°N, 114.5°E), Hebei Province, 670 m, July 29, 2000, collected by YU Hai-Li; 1 ♀, Jingxing (38.0°N, 114.0°E), Hebei Province, July, 26, 2000, collected by YU Hai-Li; 1 ♀, Fengxian (33.9°N, 106.5°E), Shaanxi Province, 1050 m, Aug. 23, 1987, collected by LI Hou-Hun; 2 ♀ ♀, Lichuan (30.3°N, 108.9°E), Hubei Province, 700 m, July 29–30, 1999, collected by LI Hou-Hun; 2 ♀

♀, Dengfeng (34.4°N, 113.0°E), Henan Province, 800 m, June 19, 2000, collected by YU Hai-Li; 1 ♀, Luoshan (32.2°N, 114.5°E), Henan Province, 350 m, May 23, 2000, collected by YU Hai-Li.

Distribution: Shaanxi, Hubei, Henan, Hebei; Japan.

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点展足蛾属在中国的首次记录及一新种记述 (鳞翅目: 织蛾科, 展足蛾亚科)

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摘要: 首次报道了点展足蛾属 *Hieromantis* Meyrick 在中国的分布, 记述了新种点展足蛾 *Hieromantis sheni* Li et Wang, sp. nov. 和中国新记录种洁点展足蛾 *Hieromantis kurokoi* Yasuda, 1988 (分布于河南, 陕西, 河北, 湖北), 并绘制了两性外生殖器图。模式标本保存在南开大学生物系标本室。

关键词: 鳞翅目; 织蛾科; 展足蛾亚科; 点展足蛾属; 新种

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新种简记

点展足蛾, 新种 *Hieromantis sheni* Li et Wang, sp. nov. (图 1~2)

正模 ♂, 河南西峡 (33.3°N, 111.4°E), 890 m, 1998-VII-17, 李后魂采。副模: 2 ♀ ♀, 河南信阳 (32.1°N, 114.1°E), 700 m, 1997-V-9, 李后魂采; 12 ♂, 5 ♀ ♀, 河南登封 (34.4°N, 113.0°E), 800 m, 2000-VI-9, 于海丽采; 1 ♀, 江西玉山 (28.6°N, 118.2°E), 1985-VII-19, 沈光普采; 2 ♂ ♂, 3 ♀ ♀, 河北井陉 (38.0°N, 114.0°E), 1 200 m, 2000-VII-23~24, 于海丽采。

该新种与 *H. makiosana* Yasuda 相似, 但胸部铅灰色至褐色; 雄性爪形突末端平截, 雌性交配囊有许多短刺突, 囊突小。

新种以河南农业科学院植物保护研究所申效诚研究员的姓氏命名。